FIGURES AND SEQUENCES (600-1-284P)

(locations of polymorphisms or sites of polymorphisms appear in bold underline)

FIGURE 1 AND SEQ ID NO:1

Wild-type gene

```
-177 CTGCCGGCTC ACTCGGCTGC TGCGTCTGGT CTGGCGTCTG CTGAGAAGAT CCTCTTCTAC
-117 CCTGCTCTGC ACCTGTGCTC GACTGCCAGC CGGCTGAGGG CGGGGGTCTC CACGGTGGTC
 -57 CCAGCTCCCA AGGAGGTTGC AGAA
   1                            gtaagg gcctgagccg ctggaggtcg ggtgggggtc   IVS I
  37 ctgctgacag actgcagcaa agcagggcgg gtggaggggg caggaggaag ctgggtccca
  97 ggcgtttctg ggtgtgtctc agtctctttt gtgcctgcgt gtgcgtgagg gcaggtttgg
 157 gcatttctgt gtgtctgtgt gtgtgacttg tgtccctgca tccctgtgcc tgtgaacacg
 217 cgagtggctg tgtgttcatc agtccctgtg ggtggacacg tgtcctgggg tgtagctgcc
 277 tccaggcacc ctgtgtgtga gtctctaaac caaatgggac cgtgtccttg cgggtgcatg
 337 tgtgtctttg tgttctgtga gtccctgtct gtgcacacgt gtcctcgtgt ctccatgtgt
 397 ccctgcatgt gcatgtgtgc ctgtgtgttc tggtgtgtgt gcccgtgtgc ctcagtgtct
 457 ctccgctggg cgtgtgtctg gcactgcagc cacttgtctc tgcgctctgt cccag

 -33                            GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG   ATG Start
   4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
  64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
 124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
 184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
 244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
 304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
 364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
 424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
 484 CGCACGTCCA GCAAAGCCCA GGCTGTCAAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
 544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG

   1                                                     gtca gtggggtgtc   IVS III
  15 ccctcctccc ctcaccaggc tccctggctc ccgggtggct cctctgggcc cacgtgccct
  65 ccacgtctcc tgggcccact ctgaccccgt ttctctccct gcag

 590                                                     AGAT CGAGTGCCTG
 604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
 664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
 724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
 784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
 844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
 904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
```

```
 964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
1024 GACGTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
1204 GACACACCCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
```

Intron sequences (IVS I and IVS III) are shown in small case letters. Numbering for each IVS begins with +1 for the first base of the intron; numbering is specific for each intron. mRNA sequence is shown in capital letters. +1 is assigned to the first base of the initiation codon. Nucleotides upstream (5′) from the initiation codon are assigned negative numbers. The ATG initiation codon and TGA stop codon are shown in bold. Locations of identified SNPs are also shown in bold and underlined.

FIGURE 2 AND SEQ ID NO:2

Wild-type Intron I (IVS I)

```
   1                              gtaagg gcctgagccg ctggaggtcg ggtgggggtc
  37 ctgctgacag actgcagcaa agcagggcgg gtggaggggg caggaggaag ctgggtccca
  97 ggcgtttctg ggtgtgtctc agtctctttt gtgcctgcgt gtgcgtgagg gcaggtttgg
 157 gcatttctgt gtgtctgtgt gtgtgacttg tgtccctgca tccctgtgcc tgtgaacacg
 217 cgagtggctg tgtgttcatc agtccctgtg ggtggacacg tgtcctgggg tgtagctgcc
 277 tccaggcacc ctgtgtgtga gtctctaaac caaatgggac cgtgtccttg cgggtgcatg
 337 tgtgtctttg tgttctgtga gtccctgtct gtgcacacgt gtcctcgtgt ctccatgtgt
 397 ccctgcatgt gcatgtgtgc ctgtgtgttc tggtgtgtgt gcccgtgtgc ctcagtgtct
 457 ctccgctggg cgtgtgtctg gcactgcagc cacttgtctc tgcgctctgt cccag
```

FIGURE 3 AND SEQ ID NO:3

G-46A polymorphism in 5'-untranslated region

-177 CTGCCGGCTC ACTCGGCTGC TGCGTCTGGT CTGGCGTCTG CTGAGAAGAT CCTCTTCTAC

-117 CCTGCTCTGC ACCTGTGCTC GACTGCCAGC CGGCTGAGGG CGGGGGTCTC CACGGTGGTC

-57 CCAGCTCCCA AAGAGGTTGC AGAA

FIGURE 4 AND SEQ ID NO:4

GIVS I 135C polymorphism in intron I

1 gtaagg gcctgagccg ctggaggtcg ggtgggggtc

37 ctgctgacag actgcagcaa agcagggcgg gtggaggggg caggaggaag ctgggtccca

97 ggcgtttctg ggtgtgtctc agtctctttt gtgcctgcgt gtgcgtgagg gcaggtttgg

157 gcatttctgt gtgtctgtgt gtgtgacttg tgtccctgca tccctgtgcc tgtgaacacg

217 cgagtggctg tgtgttcatc agtccctgtg ggtggacacg tgtcctgggg tgtagctgcc

277 tccaggcacc ctgtgtgtga gtctctaaac caaatgggac cgtgtccttg cgggtgcatg

337 tgtgtctttg tgttctgtga gtccctgtct gtgcacacgt gtcctcgtgt ctccatgtgt

397 ccctgcatgt gcatgtgtgc ctgtgtgttc tggtgtgtgt gcccgtgtgc ctcagtgtct

457 ctccgctggg cgtgtgtctg gcactgcagc cacttgtctc tgcgctctgt cccag

FIGURE 5 AND SEQ ID NO:5

GIVS I 250A polymorphism in intron I

1 gtaagg gcctgagccg ctggaggtcg ggtgggggtc

37 ctgctgacag actgcagcaa agcagggcgg gtggaggggg caggaggaag ctgggtccca

97 ggcgtttctg ggtgtgtctc agtctctttt gtgcctgcgt gtgcgtgagg gcaggtttgg

157 gcatttctgt gtgtctgtgt gtgtgacttg tgtccctgca tccctgtgcc tgtgaacacg

217 cgagtggctg tgtgttcatc agtccctgtg ggtagacacg tgtcctgggg tgtagctgcc

277 tccaggcacc ctgtgtgtga gtctctaaac caaatgggac cgtgtccttg cgggtgcatg

337 tgtgtctttg tgttctgtga gtccctgtct gtgcacacgt gtcctcgtgt ctccatgtgt

397 ccctgcatgt gcatgtgtgc ctgtgtgttc tggtgtgtgt gcccgtgtgc ctcagtgtct

457 ctccgctggg cgtgtgtctg gcactgcagc cacttgtctc tgcgctctgt cccag

FIGURE 6 AND SEQ ID NO:6

GIVS I 251A polymorphism in intron I

```
   1                              gtaagg gcctgagccg ctggaggtcg ggtgggggtc
  37 ctgctgacag actgcagcaa agcagggcgg gtggaggggg caggaggaag ctgggtccca
  97 ggcgtttctg ggtgtgtctc agtctctttt gtgcctgcgt gtgcgtgagg gcaggtttgg
 157 gcatttctgt gtgtctgtgt gtgtgacttg tgtccctgca tccctgtgcc tgtgaacacg
 217 cgagtggctg tgtgttcatc agtccctgtg ggtgaacacg tgtcctgggg tgtagctgcc
 277 tccaggcacc ctgtgtgtga gtctctaaac caaatgggac cgtgtccttg cgggtgcatg
 337 tgtgtctttg tgttctgtga gtccctgtct gtgcacacgt gtcctcgtgt ctccatgtgt
 397 ccctgcatgt gcatgtgtgc ctgtgtgttc tggtgtgtgt gcccgtgtgc ctcagtgtct
 457 ctccgctggg cgtgtgtctg gcactgcagc cacttgtctc tgcgctctgt cccag
```

FIGURE 7 AND SEQ ID NO:7

C510T polymorphism in coding region

```
 -33                              GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG   ATG Start
   4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
  64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
 124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
 184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
 244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
 304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
 364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
 424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
 484 CGCACGTCCA GCAAAGCCCA GGCTGTTAAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
 544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG

 590                                                    AGAT CGAGTGCCTG
 604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
 664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
 724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
 784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
 844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
 904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
 964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
1024 GACCGTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
1204 GACACACCCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
```

```
1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
```

FIGURE 8 AND SEQ ID NO:8

CIVS III 67T polymorphism in intron III

```
-33                                GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG   ATG Start
  4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
 64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
484 CGCACGTCCA GCAAAGCCCA GGCTGTTAAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG

  1                                                      gtca gtggggtgtc   IVS III
 15 ccctcctccc ctcaccaggc tccctggctc ccgggtggct cctctgggcc catgtgccct
 65 ccacgtctcc tgggcccact ctgaccccgt ttctctccct gcag

590                                                      AGAT CGAGTGCCTG
604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
1024 GACGTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
1204 GACACACCCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
```

```
        1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
        1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
        1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
        1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
        1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
        1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
        1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
        1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
```

FIGURE 9 AND SEQ ID NO:9

A804G polymorphism in coding region

```
         -33                            GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG   ATG Start
           4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
          64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
         124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
         184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
         244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
         304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
         364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
         424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
         484 CGCACGTCCA GCAAAGCCCA GGCTGTCAAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
         544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG

         590                                                 AGAT CGAGTGCCTG
         604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
         664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
         724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
         784 ACTCGGCTGG TGCTGGTGGT GGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
         844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
         904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
         964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
        1024 GACGTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
        1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
        1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
        1204 GACACACCCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
        1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
        1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
        1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
        1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
        1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
```

```
        1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
        1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
        1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
        1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
```

FIGURE 10 AND SEQ ID NO:10

C1026T polymorphism in coding region

```
         -33                            GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG   ATG Start
           4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
          64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
         124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
         184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
         244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
         304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
         364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
         424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
         484 CGCACGTCCA GCAAAGCCCA GGCTGTCAAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
         544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG

         590                                                   AGAT CGAGTGCCTG
         604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
         664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
         724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
         784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
         844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
         904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
         964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
        1024 GATGTGCAGG TGTCTGACCG CGTGCGCAGC ATTGCCAAGG ACGTGGCCCT GGCCTGCAAG
        1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACCTGCCCAT GGTGCCTGTC
        1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
        1204 GACACACCCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
        1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
        1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
        1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
        1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
        1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
        1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
        1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
        1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
        1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
```

FIGURE 11 AND SEQ ID NO:11

C1126G polymorphism in 3'-untranslated region

```
-33                                GTACCG TACAGAGTGG ATTTGCAGGG CAGTGGCATG   ATG Start
  4 GAGCCCCTCT TCCCCGCGCC GTTCTGGGAG GTTATCTACG GCAGCCACCT TCAGGGCAAC
 64 CTGTCCCTCC TGAGCCCCAA CCACAGTCTG CTGCCCCCGC ATCTGCTGCT CAATGCCAGC
124 CACGGCGCCT TCCTGCCCCT CGGGCTCAAG GTCACCATCG TGGGGCTCTA CCTGGCCGTG
184 TGTGTCGGAG GGCTCCTGGG GAACTGCCTT GTCATGTACG TCATCCTCAG GCACACCAAA
244 ATGAAGACAG CCACCAATAT TTACATCTTT AACCTGGCCC TGGCCGACAC TCTGGTCCTG
304 CTGACGCTGC CCTTCCAGGG CACGGACATC CTCCTGGGCT TCTGGCCGTT TGGGAATGCG
364 CTGTGCAAGA CAGTCATTGC CATTGACTAC TACAACATGT TCACCAGCAC CTTCACCCTA
424 ACTGCCATGA GTGTGGATCG CTATGTAGCC ATCTGCCACC CCATCCGTGC CCTCGACGTC
484 CGCACGTCCA GCAAAGCCCA GGCTGTCAAT GTGGCCATCT GGGCCCTGGC CTCTGTTGTC
544 GGTGTTCCCG TTGCCATCAT GGGCTCGGCA CAGGTCGAGG ATGAAG

590                                                          AGAT CGAGTGCCTG
604 GTGGAGATCC CTACCCCTCA GGATTACTGG GGCCCGGTGT TTGCCATCTG CATCTTCCTC
664 TTCTCCTTCA TCGTCCCCGT GCTCGTCATC TCTGTCTGCT ACAGCCTCAT GATCCGGCGG
724 CTCCGTGGAG TCCGCCTGCT CTCGGGCTCC CGAGAGAAGG ACCGGAACCT GCGGCGCATC
784 ACTCGGCTGG TGCTGGTGGT AGTGGCTGTG TTCGTGGGCT GCTGGACGCC TGTCCAGGTC
844 TTCGTGCTGG CCCAAGGGCT GGGGGTTCAG CCGAGCAGCG AGACTGCCGT GGCCATTCTG
904 CGCTTCTGCA CGGCCCTGGG CTACGTCAAC AGCTGCCTCA ACCCCATCCT CTACGCCTTC
964 CTGGATGAGA ACTTCAAGGC CTGCTTCCGC AAGTTCTGCT GTGCATCTGC CCTGCGCCGG
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1084 ACCTCTGAGA CGGTACCGCG GCCCGCATGA CTAGGCGTGG ACGTGCCCAT GGTGCCTGTC
1144 AGCCCGCAGA GCCCATCTAC GCCCAACACA GAGCTCACAC AGGTCACTGC TCTCTAGGCG
1204 GACACACCCT GGGCCCTGAG CATCCAGAGC CTGGGATGGG CTTTTCCCTG TGGGCCAGGG
1264 ATGCTCGGTC CCAGAGGAGG ACCTAGTGAC ATCATGGGAC AGGTCAAAGC ATTAGGGCCA
1324 CCTCCATGGC CCCAGACAGA CTAAAGCTGC CCTCCTGGTG CAGGGCCGAG GGGACACAAG
1384 GACCTACCTG GAAGCAGCTG ACATGCTGGT GGACGGCCGT TACTGGAGCC CGTGCCCCTC
1444 CCTCCCCGTG CTTCATGTGA CTCTTGGCCT CTCTGCTGCT GCGTTGGCAG AACCCTGGGT
1504 GGGCAGGCAC CCGGAGGAGG AGCAGCAGCT GTGTCATCCT GTGCCCCCCA TGTGCTGTGT
1564 GCTGTTTGCA TGGCAGGGCT CCAGCTGCCT TCAGCCCTGT GACGTCTCCT CAGGGCAGCT
1624 GGACAGGCTT GGCACGGCCC GGGAAGTGCA GCAGGCAGCT TTTCTTTGGG GTGGGACTTG
1684 CCCTGAGCTT GGAGCTGCCA CCTGGAGGAC TTGCCTGTTC CGACTCCACC TGTGCAGCCG
1744 GGGCCACCCC AGGAGAAAGT GTCCAGGTGG GGGCTGGCAG TCCCTGGCTG CAG
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